

FINANCIAL REPORT

W A T E R

1937

FINANCIAL REPORT
OF THE
DIVISION OF ACCOUNTS
(WATER)

March 30, 1938

To the Director of Public Affairs,
Newark, New Jersey.

Dear Sir:

Attention Mr. Jas. W. Costello, Chief Engr.

I submit herewith the Financial Report of the
Division of Accounts-Water, for the year ending December
31st, 1937, contained in the following statements:

Income Account for the year ending December 31st,
1937.

Balance Sheet as at December 31st, 1937.

Respectfully,

Chief Accountant.

March 30th, 1938

To the Director of Public Affairs,

Newark, New Jersey.

Dear Sir:

I submit herewith schedules supporting the Income Account and Balance Sheet presented to you on February 1, 1938, and offer the following explanation of the various schedules:

FIXED CAPITAL, \$46,193,731.43.

This schedule shows the additions to the plant and equipment during the year, the principal additions being amounts expended in:

Reservation Land	\$ 2,634.82
Forestry	190.00
42" and 48" Pipe Line	4,952.46
Chlorine Feeding Apparatus	2,710.00
High Pressure System	2,430.58
General Distribution	
Mains	315,847.08
Fire Hydrants	19,724.50
	\$348,489.44

DEPRECIATION SCHEDULE \$7,696,823.18.

This schedule shows in detail the depreciation accrued during the year on plant, \$500,086.91, based on unit rates set up by the Chief Accountant. There is also shown the amount of depreciation on each individual group at the beginning of the year. The total reserve at December 31, 1937 on plant and equipment is \$7,696,823.18 and the net depreciated cost of plant is \$38,496,908.25.

CASH - Current \$247,423.57, Capital \$338,160.83

This amount is in the hands of the City Treasurer in the General City Funds, with the exception of trust funds contained therein in amount of \$6,811.90.

CONSUMERS' ACCOUNTS RECEIVABLE, \$708,621.19

NO. JERSEY DIST. WATER SUPPLY COMMISSION ACCOUNTS RECEIVABLE, \$283,854.44

This amount represents open accounts owing and collectable from consumers, representing verified balances on the records in the Bureau, with the exception of water and service arrears in the hands of the City Comptroller in amount of \$45,869.22, which amount is certified by Puder & Puder.

Sinking Fund	\$ 3,272,386.27
Funded Debt	21,330,000.00
Interest on Bonds for Year	940,970.16

The investments are held and controlled by the Sinking Fund Commission and are verified with City Auditor Records. Opposite the several amounts in sinking fund is set the amount of bonds outstanding, arranged in order of maturity.

The funded debt was decreased during 1937 by \$251,000.00 - Bonds issued - \$239,000.00 - Serial Bonds paid, \$490,000.00.

The interest on funded debt during year was net, \$940,970.16, being a decrease of \$11,653.78 over previous year. Detail is also shown of interest accrued and not due at December 31st, in amount of \$240,458.49.

TRUST FUNDS, \$6,811.90.

OPERATING REVENUE, \$2,592,517.84.

This schedule shows the volume of water delivered during the year, also water sold direct from Manaque Reservoir to other municipalities in amount of \$139,901.47. The operating revenue shows an increase of \$4,452.66.

During the past year there was no let up in the activities of the Bureau with regard to service and construction work.

The following tabulation of metered and unmetered service should be noted by all users of city water:

	Revenue Obtained	Water Consumed	Percentage of Revenue
Metered	2,137,652.98	14,611. Mill. Gals.	82.6
Unmetered	36,793.42	239. " "	1.4
Other Systems	246,611.70	3,595. " "	9.6
Wanaque water sold direct to other Systems	139,901.47	(Unknown)	5.4
Municipal, Miscellaneous	26,390.74	457.	1.0

METERED PROPERTIES

	Cubic Feet	Million Gallons
Domestic-		
One and two-family dwellings	423,173,000.	
Over two-family dwellings	513,884,500.	
Non-Domestic, Industrial -		
Mills, factories, railroads	741,293,500.	
Commercial -		14,610.512
Stores, stables, office buildings	234,886,500.	
Semi-Public Buildings -		
Hospitals, private schools, churches	39,909,000	
Services to Other Systems	480,634,938	3,595.389
Municipal water service	59,484,500	444.974
Total	2,493,265,938	18,650.875

Unmetered -

Private dwellings, building work, street flushing, etc.	33,814,318	252.948
Fire extinguishers, loss from burst street mains and leaks	312,716,662	2,339.277

The proportion of unmetered consumption chargeable against private dwellings has been estimated.

ACCOUNTING SYSTEM.

The accounting system presents a complete financial statement showing operating revenue, expenditure, yearly income and the surplus or deficit for that time.

CLAIMS

There were 963 claims for allowance filed with the Adjustment Committee on metered properties, on which adjustments amounting to \$13,490.32 were allowed. This represents a decrease of 221 in number of claims filed.

The Bureau rule, which requires a "licensed plumber's repair statement" presented to the Adjustment Committee before consideration of any claim on large water bill, is still effective.

Owners think a large water bill is sufficient warrant for an adjustment, but the requirement of plumber's statement of the work that was performed lessens the number of claims.

Ice machines and electric ice-boxes, when valves are not properly serviced by the sellers or agents, are productive of large water bills. Many cases of this kind show a continuous stream of water flowing to the sewer. The meter tells the tale - the owner or landlord is paying the ice bills along with normal water bills.

Respectfully,

Chief Accountant

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

December 31, 1937

BALANCE SHEET

ASSETS

CAPITAL ASSETS

Cost of properties including land,
buildings, equipment, etc., less
depreciation at January 1, 1937
Net additions during the year less
net depreciation for year

\$38,648,851.96

151,943.71

\$38,496,908.25

MATERIAL AND SUPPLIES

164,837.02

CURRENT ASSETS

Accounts Receivable -

No. Jersey Dist. W.S. Comm.	283,854.44
Meter Rates Uncollected	537,906.99
Unmetered Rates Uncollected	4,961.35
Municipal Uncollected	8,257.94
Tapping Mains Uncollected	110,467.03
Builders Uncollected	407.78
Water & Service Arrears (Comptroller)	45,869.22
Miscellaneous	750.88

992,475.63

Less Reserve for
"Deductions" &
Doubtful Accounts

810,787.23

181,688.40

Revenue Cash

240,611.67

422,300.07

SPECIAL FUNDS

Capital Cash
Watershed Extension Fund, Cash
Trust Funds, Cash

338,092.66

68.17

6,811.90

344,972.73

DEFERRED CHARGES TO OPERATIONS

2,438.16

SINKING FUND

Sinking Fund - Regular
Sinking Fund - Excess Payments

3,191,627.96

80,758.313,272,386.27

\$42,703,842.50

DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

December 31st, 1937

BALANCE SHEET

LIABILITIES

CAPITAL LIABILITIES

Bonded Indebtedness

21,330,000.00

CURRENT LIABILITIES

Consumers' Deposits

6,811.90

Sundry Creditors - Revenue

38,635.58

Sundry Creditors - Capital

7,755.25

Unpaid Accrued Wages - Revenue

13,937.50

Unpaid Accrued Wages - Capital

1,610.32

Interest Accrued on Bonds

240,458.49

309,209.04

REVENUE APPLICABLE TO 1938 PERIOD

3,117.51

SINKING FUND RESERVE

Sinking Fund - Regular

3,191,627.96

Sinking Fund - Excess Payments

80,758.31

3,272,386.27

CONSTRUCTION OF MAINS RESERVE

328,727.09

WATERSHED EXTENSION RESERVE

68.17

CAPITAL SURPLUS

Balance at January 1, 1937

17,067,851.96

ADD

Premium on Bonds

11,000.00

Construction from Capital Funds

338,082.18

Construction from Revenue Funds

38,199.52

17,455,133.66

SUBTRACT

Transfer Property to Essex County

Park Commission

13,577.56

Bond Issue

250,000.00

Sinking Fund

& Serial

Bond Pay-

ments

539,620.31

Amortization 500,086.91

Misc. Equip-

ment Re-

serve

14,560.94

514,647.85

24,972.46

Sinking Fund Payments

49,620.31

24,647.85

288,225.41

17,166,908.25

REVENUE SURPLUS

Balance at January 1, 1937

353,474.70

Net Deficit from Operations during

year, as per Attached Exhibit

21,849.01

Construction from Revenue Funds

38,199.52

60,048.53

293,426.17

42,703,842.50

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

STATEMENT OF EARNINGS AND EXPENDITURES

For the year ending December 31, 1937.

Net Sales of Water	2,447,448.84	
North Jersey Dist. Water Supply Comm.	<u>139,901.47</u>	2,587,350.31
Miscellaneous Operating Revenue		<u>1,238.07</u>
Total Operating Revenue		2,588,588.38

DEDUCT

Water Collecting Expenses	230,386.35	
Purification System Expenses	23,983.75	
Distribution System Expenses	400,075.34	
Commercial & New Business Expenses	185,072.41	
General & Miscellaneous Expenses	308,819.47	
Amortization - Paid into Sinking Fund	<u>500,086.91</u>	
	<u>808,906.38</u>	<u>1,648,424.23</u>
		940,164.15

ADD

Miscellaneous Rents, Interest and Non-Operating Revenue		<u>3,929.46</u>
Gross Corporate Income		944,093.61

DEDUCT

Interest on Funded Debt		<u>940,970.16</u>
		3,123.45

DEDUCT

Regular Sinking Fund Payments	49,620.31	
Serial Bond Payments	<u>490,000.00</u>	539,620.31
Less Amount Provided by Amortization under General & Miscellaneous Expenses	500,086.91	
Miscellaneous Equipment Reserve Under Various Expense Accounts	<u>14,560.94</u>	<u>514,647.85</u>
		<u>24,972.46</u>

To REVENUE **Deficit** year ending
December 31, 1937**21,849.01**

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

BALANCE SHEET

December 31, 1937

PUBLIC UTILITY FORM

ASSETS.

		Balance at Close of Year	Net Change During Year
Fixed Capital, December 31, 1937		46,193,731.43	276,073.55
Materials and Supplies		164,837.02	22,039.27
<u>CASH</u>			
Watershed Extension Fund	68.17		
Trust Funds	6,811.90		
General Funds	240,611.67		
Capital Funds	338,092.66	585,584.40	431,288.41
North Jersey Dist. Water Supply Commission	283,854.44		
Consumers' Accounts Receivable	708,621.19	992,475.63	18,875.25
Prepayments (Fire Insurance)		2,438.16	1,782.43
Sinking Funds (Regular)	3,191,627.96		
Sinking Funds (Excess Payments)	80,758.31	3,272,386.27	148,890.06
		<u>\$51,211,452.91</u>	<u>\$895,384.11</u>

LIABILITIES

Funded Debt	21,330,000.00	251,000.00
Consumers' Deposits	6,811.90	247.92
Other Accounts Payable	46,390.83	14,734.22
Unearned Revenue (1938 Period)	3,117.51	296.04
Interest Accrued	240,458.49	18,595.26
Other Accrued Liabilities	15,547.82	5,693.61
Amortization (or Retirement) Reserve	7,696,823.18	428,017.26
Miscellaneous Reserves	4,411,968.76	1,157,709.35
Capital Surplus	17,166,908.25	
Earned Surplus	293,426.17	441,126.95
	<u>51,211,452.91</u>	<u>895,384.11</u>

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

Plant and Equipment Depreciation Schedule

December 31, 1937

Title of Account	Accrued to Jan. 1, 1937	Accrued dur- ing 1937	Total ac- crued to Dec. 31, 1937
112 <u>RECREATION STRUCTURES</u>			
Macopin Village	31,824.47	1,614.70	33,439.17
		33.67 (1936)	
Superintendent's House, Watershed	605.62	336.89	976.18
Forester's House, Watershed		91.25	91.25
Concrete Benches, Watershed	43.02	21.51	64.53
Garage, Watershed	213.64	19.86	233.50
104 <u>PAYER DIVERSION RIGHTS</u>			
113 <u>IMPROVING RESERVOIRS</u>			
Cost of Watershed, except Pipe Line	375,000.00	25,000.00	400,000.00
Mannus Reservoir	405,000.00	135,000.00	540,000.00
115 <u>SPRINGS & WELLS</u>			
Driven Wells, Belleville	22,274.21		22,274.21
Calson Wells, Belleville	2,452.80		2,452.80
Drilled Wells, Belleville	36,164.18		36,164.18
118 <u>INTAKE & SUPPLY LINES</u>			
Cost of Watershed Pipe Line (M. R. Sherrard's Estimate)	750,000.00	50,000.00	800,000.00
Butler Connections	1,348.26	79.31	1,427.57
48" Pipe Line, Gate House, Pecannock	132,754.71		132,754.71
124 <u>CHEMICAL TREATMENT PLANT</u>			
Chlorine Feeding Apparatus	9,690.90		9,690.90
Chlorine Building, Macopin	520.20	189.91	710.11
127 <u>PUMPING STATION STRUCTURES</u>			
Belleville Chimney	10,056.25		10,056.25
Belleville Riverwall & Dock	266,110.99		266,110.99
135 <u>STORAGE RESERVOIRS, TANKS & STANDPIPES</u>			
Belleville Keeper's House	3,879.53	106.78	3,986.31
Belleville Receiving Reservoir	122,362.63	4,512.18	126,874.81
Belleville Fence	1,875.09	233.01	2,130.10
Belleville Res. Appurtenances	7,144.45	1,054.90	8,199.35
No. Orange Av. H. P. Reservoir	81,622.58	2,867.83	84,490.51
Keeper's House - No. 9th St.	1,805.64	184.41	1,990.05
Cedar Grove Reservoir Fence	13,955.90		13,955.90
Keeper's House, Lab. & Road	2,675.08	58.49	2,733.57
Cedar Grove Water System	692.79		692.79
Cedar Grove Garage	291.62	24.80	316.42

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

Plant and Equipment Depreciation Schedule

December 31, 1937

Title of Account		Accrued to Jan. 1, 1937	Accrued dur- ing 1937	Total ac- crued to Dec. 31, 1937
<u>136 DISTRIBUTION MAINS & ACCESSORIES</u>				
High Pressure System	189,977.80	11,425.48		201,403.28
L.P. Distribution Mains General	3,540,392.32	178,362.71		3,691,316.58
		17,852.86		
		45,291.31		
Pitometer Boxes	75,152.73	8,518.27		83,671.00
60" Steel Pipe Line	453,362.28	14,454.72		469,817.00
36" Cast Iron Pipe Line	58,450.00	2,150.00		60,600.00
60" Steel Supply Main #1	73,983.05	9,308.56		83,291.61
60" Steel Supply Main #2 (Elizabeth)	126,586.10	21,826.77		148,412.87
<u>139 FIRE HYDRANTS & FIRE CISTERNS</u>				
High Pressure Hydrants	18,874.92	1,149.03		20,023.95
Low Pressure Hydrants	121,027.02	8,175.84		129,202.86
<u>141 GENERAL STRUCTURES</u>				
Pecunack Gate House Bldg., 5th & 6th Sts.	10,263.28	569.19		10,834.47
Eighth St. Stable	16,825.44	760.31		17,585.75
New Meter Testing Station	18,541.07	973.26		19,522.33
Improvements, Wilson Ave.	2,725.23	294.64		3,019.87
Cedar Grove Laboratory	7,272.87	813.77		8,086.64
	6,993,808.77	500,086.91		7,448,604.37
		45,291.31		
<u>MISCELLANEOUS EQUIPMENT</u>				
142A General Office Equipment	44,909.67	2,690.02		47,601.66
142B General Shop Equipment	89,628.57	198.03		92,544.82
		3,858.31		
142C Transportation Equipment (Stable)	1,443.70	942.46		1,460.60
		166.90		
142D Transportation Equipment (Garage)	130,880.14	150.00		98,434.35
		7,003.00		
142E Miscellaneous Equipment (Laboratory)	8,135.07	39,048.79		7,777.78
		642.71		
		1,000.00		
	274,997.15	14,560.94		248,218.81
		41,339.28		
	7,268,805.92	514,647.85		7,696,823.18
		86,630.59		

DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

Plant and Equipment

December 31, 1937

P.D. a/c	Title of Account	Balance at beginning of year 1937	Additions during 1937	Deductions during 1937	Balance December 31, 1937
104	<u>WATER DISTRIBUTION MISC.</u>	1,500.00			1,500.00
105	<u>RESERVATION LAND</u>				
	Watered Extension Fund	2,489,142.95	80.02		2,489,222.97
	New Storage Reservoir	124,527.97			124,527.97
	Exchange for Water	116,280.00			116,280.00
	Bureau of Water Revenue	59,851.00	2,554.80		62,405.80
	Beaches on Land	18,051.66			18,051.66
106	<u>DRINK SUPPLY OF SUPPLY LAND</u>				
	Driven Wells, Belleville	1,693.92		1,693.92	
108	<u>PUMPS SYSTEM LAND</u>				
	Pump House, Belleville	11,883.64		11,883.64	
109	<u>STORAGE RESERVOIR LAND</u>				
	Belleville Reservoir	1.00			1.00
	Surrounding Belleville Res- ervoir	12,000.00			12,000.00
	Ferrie Property, Belleville	14,175.00			14,175.00
	Surrounding So. Orange Av. High Pressure Reservoir	1.00			1.00
110	<u>OTHER DISTRIBUTION SYSTEM LAND</u>				
	Right of Way - Slingerland and DeBow	1,200.00			1,200.00
	Right of Way-Belleville #1	450.00			450.00
	Right of Way-Belleville #2	728.35			728.35
	Improvements along Pipe Line at Montclair	2,767.00			2,767.00
	Strip, Central Ave. and Recker St.	1.00			1.00
112	<u>RESERVATION STRUCTURES</u>				
	Kacopin Village	80,735.14			80,735.14
	Superintendent's House, Watered	16,844.34			16,844.34
	Forester's House, Watered	4,562.63	86.51		4,649.14
	Ocean Park Road	21,447.18			21,447.18
	Forestry	15,712.28	190.00		15,902.28
	Concrete Beaches, Watered	215.09			215.09
	Garage - Watered	993.15			993.15

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

Plant and Equipment

December 31, 1937

F.O. a/o	Title of Account	Balance at beginning of year 1937	Additions during 1937	Deductions during 1937	Balance December 31, 1937
104	<u>WATER DIVERSION RIGHTS</u>				
113	<u>EXPANDING RESERVOIRS</u>				
	Cost of Watershed, except Pipe Line	3,521,710.34			3,521,710.34
	Severance	2,738.00			2,738.00
	Possibilities accruing from Watershed	5,780,431.33			5,780,431.33
113	Echo Lake Dam	339,834.21			339,834.21
	Raising Dam, Oak Ridge	671,733.89			671,733.89
	Auxiliary Dam, Charlotte- burg, etc.	18,302.10			18,302.10
	New Charlotteburg Dam	22,372.53			22,372.53
	Raising Overflow, Clinton Reservoir	7,072.28			7,072.28
	Canistear Channel	8,068.88			8,068.88
	Sasque Reservoir	14,328,432.59			14,328,432.59
	Preliminary Cost of Furnishing Added Water Supply	15,378.00			15,378.00
115	<u>SPRINGS & WELLS</u>				
	Driven Wells, Belleville	22,275.21			22,275.21
	Caisson Wells, Belleville	2,453.80			2,453.80
	Drilled Wells, Belleville	36,165.18			36,165.18
118	<u>INTAKES AND SUPPLY MAINS</u>				
	Cost of Watershed Pipe Line (M. R. Sherrerd's Estimate)	2,643,216.34	4,952.46		2,653,168.80
	Putler Connections	3,965.48			3,965.48
	48" Pipe Line - Gate House, Pequannock	132,755.71			132,755.71
119	<u>SETTLING BASINS</u>				
	Settling Basins, Belleville	1.00			1.00
124	<u>CHEMICAL TREATMENT PLANT</u>				
	Chlorine Feeding Apparatus	9,691.90	2,710.00		12,401.90
	Chlorine Building, Moccasin and Belleville	9,495.25	438.15		9,933.40
127	<u>PUMPED STATION STRUCTURES</u>				
	Belleville Chimney	10,057.25			10,057.25
	Belleville Riverwall & Lock	266,111.99			266,111.99

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

Plant and Equipment

December 31, 1937

F.U. a/c	Title of Account	Balance at beginning of year 1937	Additions during 1937	Deductions during 1937	Balance December 31, 1937
142	<u>MISCELLANEOUS EQUIPMENT</u>				
A	General Office Equipment	55,417.14	2,459.58	215.03	57,661.69
B	General Shop Equipment	103,443.65	1,120.52	942.46	103,621.71
D	Transportation Equip- ment, Stable	2,196.50		150.00	2,046.50
D	Transportation Equip- ment, Garage	141,450.14	24,193.00	39,649.79	125,993.35
E	Miscellaneous Equip- ment, Laboratory	9,698.69		1,000.00	8,698.69
143	<u>OTHER TANGIBLE WATER CAPITAL</u>				
	Engineers' Maps & Records	20,000.00			20,000.00
		845,917,657.88	376,899.70	100,826.15	46,193,731.43

Newark, N. J., January 20, 1938

To the Director of Public Affairs.

Dear Sir:

I submit herewith report of receipts and disbursements for the year 1937:

OPERATING FUNDS

Receipts

Balance, January 1, 1937	273,420.48	
Correction - Capital Funds	<u>3,288.85</u>	270,131.63
<u>OPERATING REVENUE</u>		
Metered Service, Private	2,398,481.10	
Unmetered Service, Private	38,547.31	
Municipal Service	23,617.90	
Miscellaneous Water Service		
Builders	626.89	
Special	890.72	
Miscellaneous Operating Revenue		
Tapping 5/8" and 1" Mains	3,512.67	
Tapping Larger Mains, Meters, etc.	39,418.53	
Photostat Work to Other Bureaus	10,823.54	
Penalties	1.00	
Comptroller	2,809.99	
<u>NON-OPERATING REVENUE</u>		
Rent	3,617.00	
Accrued Interest	2,726.01	
Reserve in Budget	573,123.55	
Suspense - Penny Property Refund	<u>600.00</u>	3,098,796.21
		<u>2,828,664.58</u>

Disbursements

Pay Rolls, Weekly	460,806.33	
Capital	<u>85,784.39</u>	374,421.94
Pay Rolls, Semi-monthly	471,156.56	
Capital	<u>8,823.74</u>	462,332.82
Serial Bonds		490,000.00
Sinking Fund		49,620.31
Interest on Bonds	405,318.75	
Interest on Bonds (various)	<u>541,152.50</u>	946,471.25
Accounts Payable	454,407.29	
Capital	<u>219,514.05</u>	234,893.24
N. G. Checks paid in Jan.		43.63
Garage Expenses	45,770.33	
Capital	<u>15,500.61</u>	30,269.72
		<u>2,588,052.91</u>

Balance, January 1, 1938

240,611.67

WATERMAIN MITIGATION FUND

Balance, January 1, 1937	148.19
Reservations	80.02
Balance, January 1, 1938	68.17

TRUST FUND

Receipts

Balance, January 1, 1937		6,563.98
Duplicate Payments	2,380.35	
Construction	11,075.00	
Miscellaneous	125.00	
		13,580.35
		20,144.33

Disbursements

Duplicate Payments	2,327.43	
Construction	10,875.00	
Miscellaneous	125.00	
Hydrant Reducers	5.00	
		13,332.43

Balance, January 1, 1938	6,811.90
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CAPITAL FUNDS

Balance, January 1, 1937	417,715.45
Bond Issue	250,000.00
	667,715.45

Construction in 1936 (paid 1937):	
Pay Roll	738.20
Accounts Payable	248.00
	986.20

Construction in 1937	338,002.16
	338,988.36

Construction in 1937 (not paid until 1938:	
Pay Roll	1,610.32
Accts. Payable	7,755.25
	9,365.57
	329,622.79

Balance, December 31, 1937	338,092.66
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DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER
RESERVES

AMORTIZATION RESERVE

Balance at beginning of year 1937	7,263,805.92
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ADD

Accrued during year per Chief Accountant	500,086.91
Reserve Miscellaneous Equipment	14,560.94

Total Credits	\$7,763,453.77
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DEDUCT

Relaying Mains	45,291.31	
Miscellaneous Equipment	41,339.25	
	86,630.59	

Balance at close of year	\$7,696,823.18
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CONTRACTUAL RESERVES SINKING FUND

Balance at beginning of year 1937	3,123,496.21
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ADD

Payments to December 31, 1937	49,620.31
Earnings to December 31, 1937	99,269.75

Balance at close of year	\$3,272,386.27
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CONSTRUCTION OF MAINS RESERVE

Balance at beginning of year 1937	416,729.25
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ADD

Bond Issue	250,000.00
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Total Credits	\$ 666,729.25
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DEDUCT

Relaying Mains	338,002.16
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Balance at close of year	\$ 328,727.09
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WATERMAIN EXTENSION RESERVE

Balance at beginning of year 1937	148.19
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DEDUCT

Land on Account	80.02
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Balance at close of year	\$ 68.17
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DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

RESERVE

MISCELLANEOUS RESERVE

For

Deductions of Prepaid Water Bills
Doubtful & Uncollectable Accounts

8,200.00
201,337.50

(\$130,763.20-Plus Additions \$78,774.30 by Puder & Puder)

\$ 209,537.50

ADD

Reserve for 1936 Deductions
Reserve for Doubtful Accounts
Reserve for Doubtful Accounts in Budget

6,700.00
36,490.36
573,123.55

Total Credits

\$ 825,851.41

DEDUCT

Allowance on 1936 Bills (in 1937)
Doubtful Accounts

8,200.00
6,864.18

15,064.18

Balance at close of year

\$ 810,787.23

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

COMPARATIVE INCOME ACCOUNT

December 31, 1937

Item (or Account)	Amount Applicable to the year	Comparison preceding year
	Totals	Increase (Black) Decrease (Red)
Water Operating Revenue	2,588,588.38	9,715.28
Water Operating Revenue Deductions	1,648,424.23	71,424.47
Water Operating Income	940,164.15	61,713.19
<u>Other Operating Income</u>		
Miscellaneous Rent Revenues	3,645.00	
Other Interest Revenues	254.46	
Other Non-Operating Revenues	30.00	
Total Miscellaneous Income	3,929.46	5,262.62
	944,093.61	66,975.81
<u>Deductions from Gross Income</u>		
Interest on Long Term Debt	940,970.16	
Miscellaneous Deductions	24,972.46	
Total Deductions	965,942.62	36,101.96
Net Deficit for year	21,849.01	30,873.85

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

SCHEDULE OF WATER CONSUMPTION AND REVENUE

Account	No. of Con- sumers Dec. 31	Maxi- mum No. during year	No. of H.O. delivered to consumers during year	Net Amount Credited to Revenue	Average Net Rev- enue per H.O.
Metered Private Service	53,185	53,235	14,610.512	\$2,137,652.98	\$146.31
Unmetered Private Service (in use)	1,076	1,076	339.333 Est.	36,793.42	153.73
Unmetered Private Service (not in use)	190	190			
Service to Other Systems (Water Supply)	19	19	3,595.389	246,611.70	68.99
Wanage Water sold direct to Other Systems			(not known)	139,901.47	
Municipal Water Service to Other City Departments	270	270	444.974	24,578.11	95.23
Miscellaneous Water Service			11.791 Est.	1,812.63	153.73
Total Sales of Water			18,901.999	\$2,587,350.31	
<u>Miscellaneous Operating Revenue</u>					
Wool, etc.				495.57	
Penalties, Fees, etc.				742.50	
Total Operating Revenues				\$2,588,588.38	

DEPARTMENT OF PUBLIC AFFAIRS

DIVISION OF ACCOUNTS - WATER

OPERATING EXPENSES

1. Water Collecting Expenses

411 Collecting System Expenses

(a) Collecting System Superintendence

14,054.95

(b) Collecting System Labor -

#1 Res. Keeper & Helper	3,235.00
#2 Policing Watershed	15,249.70
#3 Cutting Brush & Clearing Highway	.00
#4 Caretaking Res. & Grounds	29,557.84
#5 Tearing Down Buildings	353.60
#6 Cutting Timber	4,696.10
#7 Making & Repairing Tools	88.00
#8 Forestry	2,904.00
#9 Cleaning Toilets, Collecting & Disposing of Garbage, etc.	4,753.60

60,337.84

74,392.79

412 Other Collecting System Expenses

15,347.27

413 Water Purchased

Sanague

121,390.63

State (Diversion)

4,741.70 126,132.33

415 Collecting System Repairs

(a) Repairs of Reservations -

#1 Buildings	7,141.60
#2 Resurfacing Road	.00
#3 Equipment	.00
#5 Repairs to Motors or Parts Thereof	6,372.36

13,513.96

(g) Repairs of Intakes and Supply Mains

1,000.00

14,513.96

Total Water Collecting Expenses

230,386.35

2. Purification System Expenses

421 Purification Expenses

(a) Purification Superintendence

7,975.00

(b) Purification Labor

9,686.17

17,661.17

422 Purification Supplies & Expenses

6,224.52

425 Purification System Repairs

(f) Repairs of Chemical Treatment Plant

98.06

Total Purification System Expenses

23,983.75

DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

OPERATING EXPENSES

3. Distribution System Expenses

461 Water Storage & Distribution

(a) Distribution Superintendence	36,574.11	
(b) Storage Reservoir labor	27,863.83	
(c) Other Distribution Labor -		
#1 Operating Transmission Lines	7,125.85	
#2 Operating Distribution System	42,287.08	
#3 Operating & Inspecting Services	18,385.84	
#4 Inspecting Hydrants	952.50	
#5 Flushing of Water Mains	6,626.07	
#6 Reserve - Stand-by Duty	43,834.03	119,244.37
(d) Other Distribution Expenses	19,161.65	202,844.01

462 Work on Consumers' Premises

(a) Consumers' Meter Expenses	32,677.80	
(b) Consumers' Installation Expenses	17,725.53	50,403.33

466 Repairs of Storage Reservoirs

25,446.60

467 Repairs of Mains & Accessories

(a) Repairs of Transmission Mains	23,461.76	
(b) Repairs of Distribution Mains	17,320.08	40,781.84
(c) Repairs of Consumers' Services	48,819.82	
(d) Repairs of Fire Hydrants and Cisterns	19,906.79	
(e) Miscellaneous Distribution Repairs	.00	109,508.45

468 Repairs of Consumers' Meters

11,872.95

Total Distribution System Expenses

400,075.34

4. Commercial & New Business Expenses

470 Commercial Expenses

(a) Commercial Office Salaries	61,304.46	
(b) Meter Reading & Collecting	107,617.77	
(c) Other Commercial Expenses	16,150.18	185,072.41

Total Commercial & New Business Expenses

185,072.41

DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

OPERATING EXPENSES

5. General & Miscellaneous Expenses

481	<u>Salaries of General Officers</u>		20,740.33
482	<u>Other General Office Salaries</u>		113,164.62
483	<u>General Office Supplies & Expenses</u>		13,421.36
484	<u>Law Expenses</u>		7,277.99
485	<u>Injuries and Damages</u>		11,108.30
486	<u>Insurance</u>		2,060.61
487	<u>Relief Department and Pensions</u>		2,546.00
490	<u>Store & Transportation Expenses</u>		
	(a) Store Expenses	9,312.22	
	(b) Transportation Expenses	<u>16,979.72</u>	26,291.94
493	<u>Repairs of General Structures</u>		5,912.78
494	<u>General Amortization</u>		<u>500,086.91</u>
Total General & Miscellaneous Expenses			<u>702,610.84</u>
Total Operating Expenses			<u>\$1,542,128.69</u>
495	<u>Taxes</u>		69,964.26
496	<u>Uncollectable Water Bills</u>		<u>36,331.28</u>
Total Revenue Reductions			<u>\$1,648,424.23</u>

MISCELLANEOUS DATA

Pequannock

Municipally owned plant. The water supply portion embraces storage reservoirs on the Pequannock River in Morris, Passaic and Sussex Counties, with main conduits to the city. This portion of plant was constructed under legislative authority by contract made in 1869 with the East Jersey Water Company for \$6,000,000.00. This contract contained restrictions regarding the territory which could be supplied from the Pequannock plant, and under this contract the City of Newark can only supply the present and future limits of the City of Newark and the then existing Townships of Belleville, South Orange, East Orange and Clinton. The court has decided this contract contrary to Public Policy.

Manaque

Manaque Supply is owned jointly by Newark and other municipalities, Newark's cost being \$14,328,432.59, entitling the city to 40,500,000 gallons of water a day. The Reservoir was begun in 1919 and finished March 20, 1930. Connection to Newark City Water Mains was made by the Division of Water Engineers July 5th, 1930

All hydrants for municipal use are free.

Regular meter rates changed in 1914, effective January 1, 1935, as follows:

Additional surcharge 15% from October 1, 1933.

Minimum rate, \$6.00 per annum or \$1.50 per quarter for 500 cubic feet. Above 500 cubic feet \$1.00 per thousand.

When bills are paid within thirty days from the first day of the quarter for which they are rendered, the following discounts on sums above the minimum charge of \$6.00 will be allowed: 2 per cent for each \$100. annual payment, 4 per cent for each \$200. and so on until \$2,000., or the maximum discount of forty per cent is attained.

High pressure and out-of-town rates - \$2.00 first 500 cubic feet - \$1.33 1/3 for each 1,000 cu. ft. additional.

Playground Commission, minimum \$1.50 - regular 45¢ per 1000 cu. ft.

Board of Education - minimum \$1.50 - regular 45¢ per 1000 cu. ft. - other schools, 60¢ per 1000 cu. ft.

Hospitals and benevolent institutions - 20¢ per 1000 cu. ft.

Town of Belleville - \$50.00 per 1,000,000 gals.

Large special sales to other municipalities - \$90.00 per 1,000,000 gallons.

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DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

WATER PURCHASED OR SOLD

	No. of M. G. delivered to consum- ers during year	Average price per Mil- lion Gallons	Amount Credited to Revenue	Amount Charged to Expense
Town of Belleville	634.540	80.00	50,763.20	
Town of Bloomfield	1,274.682	30.00	38,240.44	
City of Elizabeth	1,589.060	90.00	143,015.40	
Elizabethtown Water Co.	17.034	105.73	1,801.02	
Commonwealth Water Co. (Town of Irvington)	.613	225.10	137.99	
Town of Montclair	(Minimum - No Water)		2,500.00	
City of East Orange	(Minimum - No Water)		2,500.00	
Wayne, N. J. - Packanack Lake Development Co.	37.204	103.50	3,850.60	
Wayne Township-Dept. of Water	14.674	90.00	1,320.63	
Cedar Grove (Overbrook) - Essex Co. Board of Freeholders	27.582	90.00	2,482.42	
Wm. H. Albright, State Treas.	3,161.130	1.50		4,741.70
No. Jersey Dist. Water Supp. Comm.	7,801.5	15.56		121,390.63
			\$246,611.70	\$126,132.33

TERRITORY SERVED DURING YEAR

Permanent Population (Estimated)

Newark	458,000 Est.
Total Number of Taps - December 31, 1937	54,740
Taps Metered	53,474
Taps Unmetered	1,266
Total Capacity of Storage Reservoirs (M.G.)	11,405
Total Number of Storage Reservoirs	4
Total Number of Distribution Reservoirs	3
Total Capacity of Distribution Reservoirs (M.G.)	701.7
Number of Miles of Mains	571.64
Number of Fire Hydrants	4,790

MONTHLY OUTPUT (Million Gallons)

	Packanack	Wanaque
January	1,110.5	589.4
February	1,003.0	540.9
March	1,096.9	609.2
April	1,045.8	601.2
May	1,103.5	661.3
June	970.3	851.0
July	1,247.0	766.8
August	1,244.9	754.5
September	1,215.0	652.1
October	1,160.9	644.1
November	1,096.2	576.3
December	1,147.6	554.7
	13,441.6	7,801.5

Total Million Gallons of metered consumption during year 18,650.875
Estimated flat rate consumption, 4c (1.824) Motors, Flushers, Brooms 252.948

Total million gallons used by respondent during year 18,903.823
Million gallons lost or unaccounted for (11.01%) 2,339.277

Total million gallons delivered to mains during year 21,243.100

DEPARTMENT OF PUBLIC AFFAIRS
DIVISION OF ACCOUNTS - WATER

DRAINAGE AREA

Total number of square miles, 63.7

Area of land owned for protection of supply, 56.41
miles - 88.5 per cent of Watershed.

RESERVOIRS STORAGE TANKS & STANDPIPES

Classification	No. at close of year	Construction Material	Open or Closed	Capacity
*Wanaque Reservoir	1	Earth Dam, Concrete Core	Open	27,800.M.G.
Collecting Reservoirs	4	Earth Dam, Concrete Core	Open	11,405.M.G.
Storage Reservoirs (Distribution)	1	Earth Dam, Concrete Core	Open	675.7 M.G.
	2	Masonry and Earth Bank	Open	23. M.G.

*Newark's share - 40.5 Million Gallons daily

PURIFICATION SYSTEM.

Sedimentation

Cedar Grove Reservoir, holding about thirteen days' supply, acts as a Sedimentation Basin. The Outlet Gatehouse is arranged so that the reservoir can be by-passed and the supply drawn directly from the Watershed. There are two inlets, one near the southern end and the other near the northeast corner. The Outlet Gatehouse is on the west side. The area of Cedar Grove Reservoir is 100 acres and its capacity is 675.7 million gallons.

Purification

Chlorination plants have been installed at Macopin Intake and Cedar Grove Reservoirs.